

FIG. 1

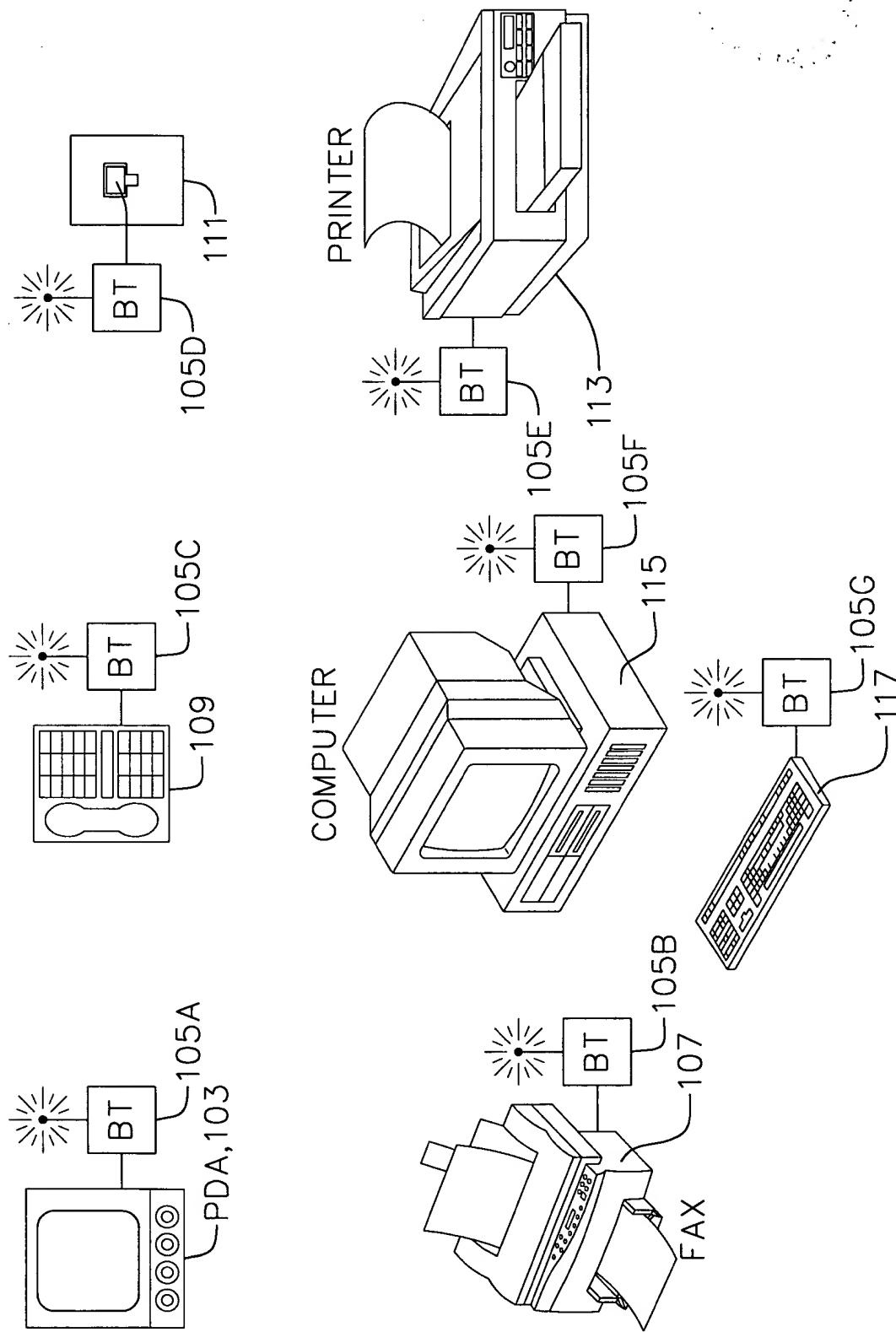


FIG. 2A

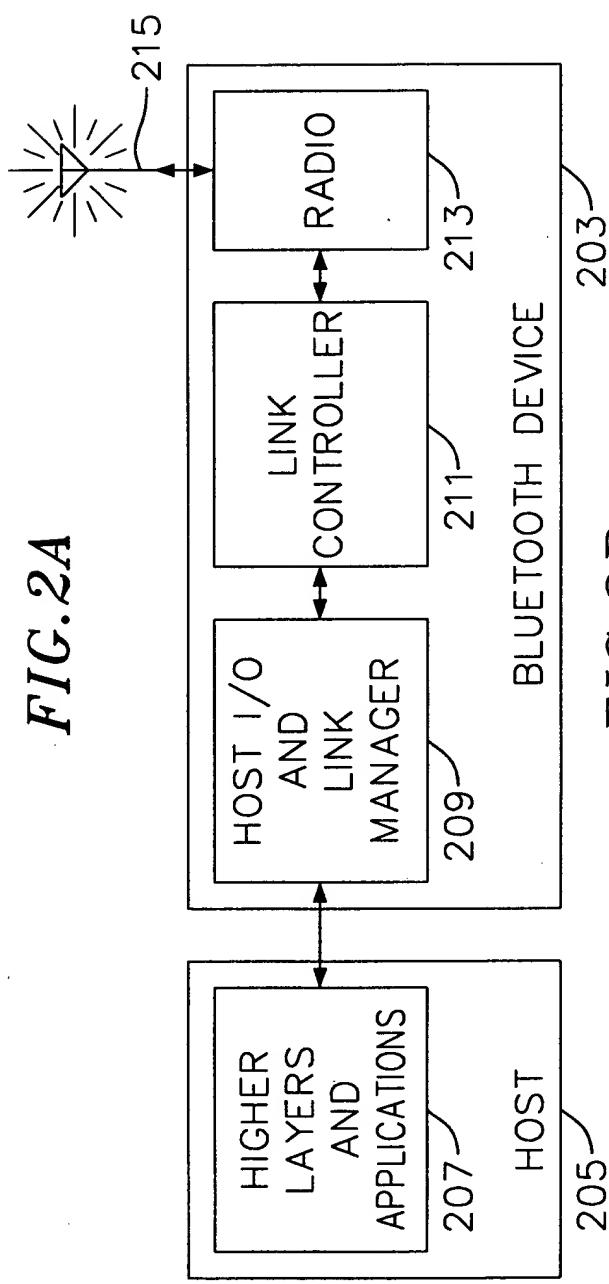


FIG. 2B

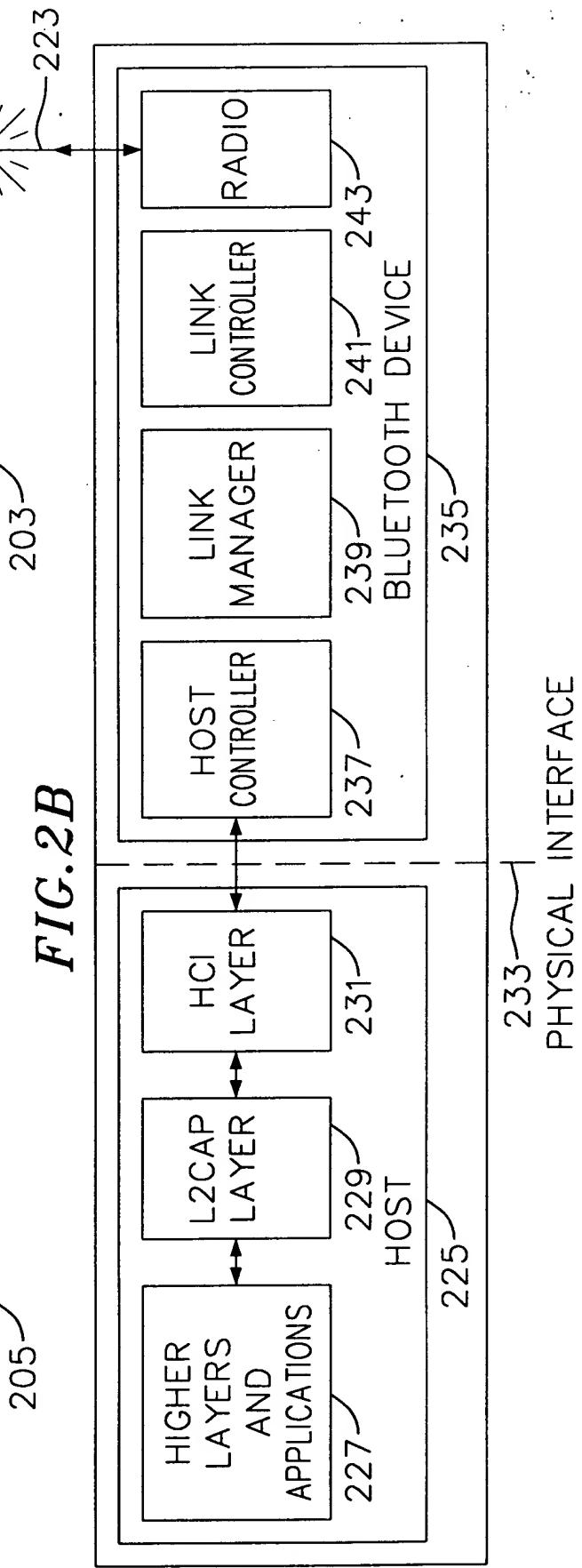


FIG.2C

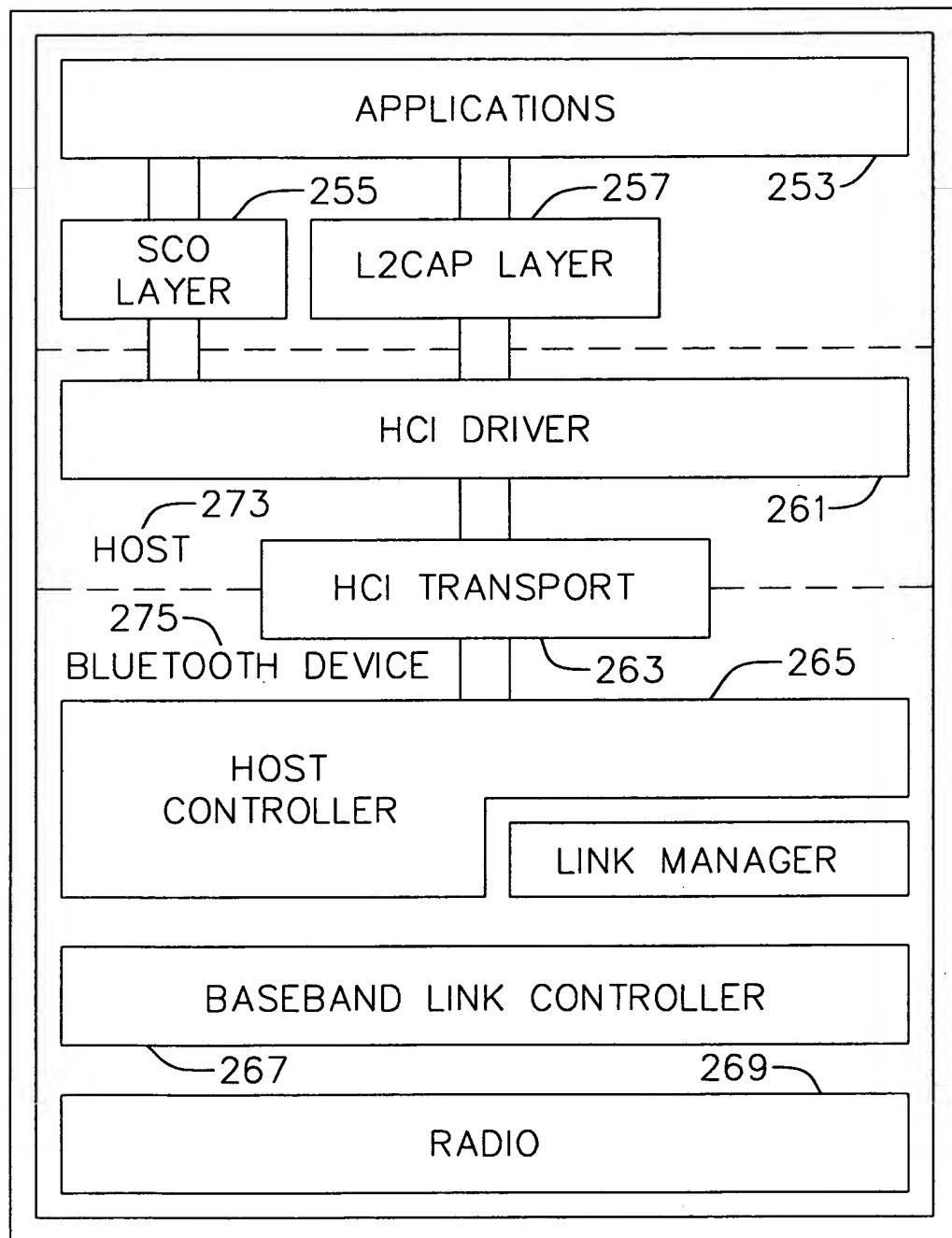


FIG. 3

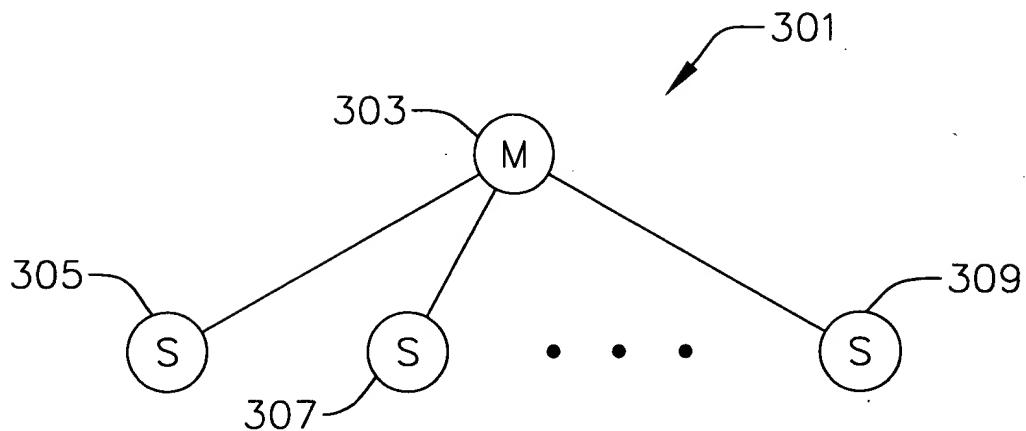


FIG. 4

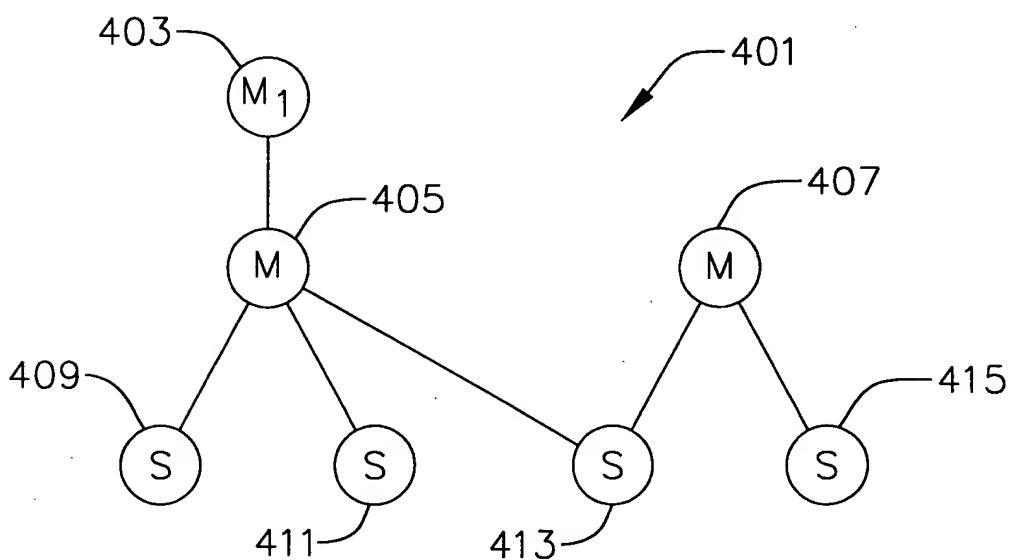


FIG. 5

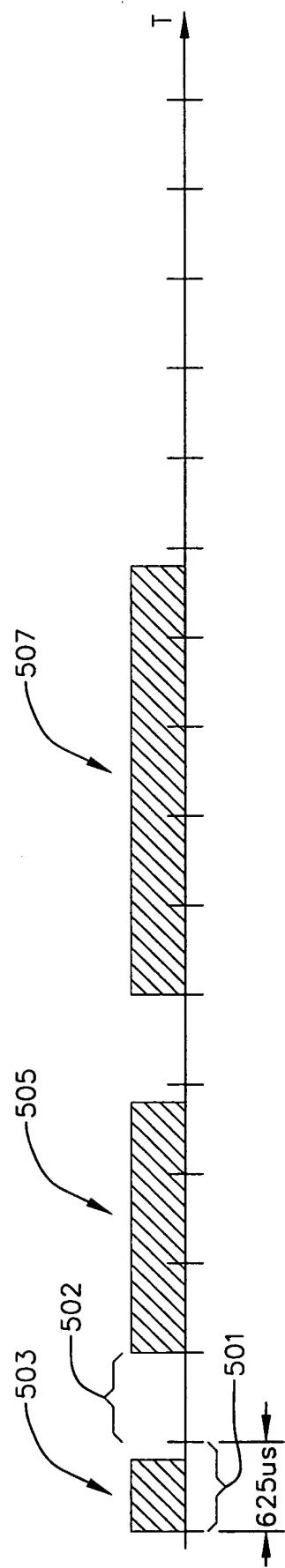


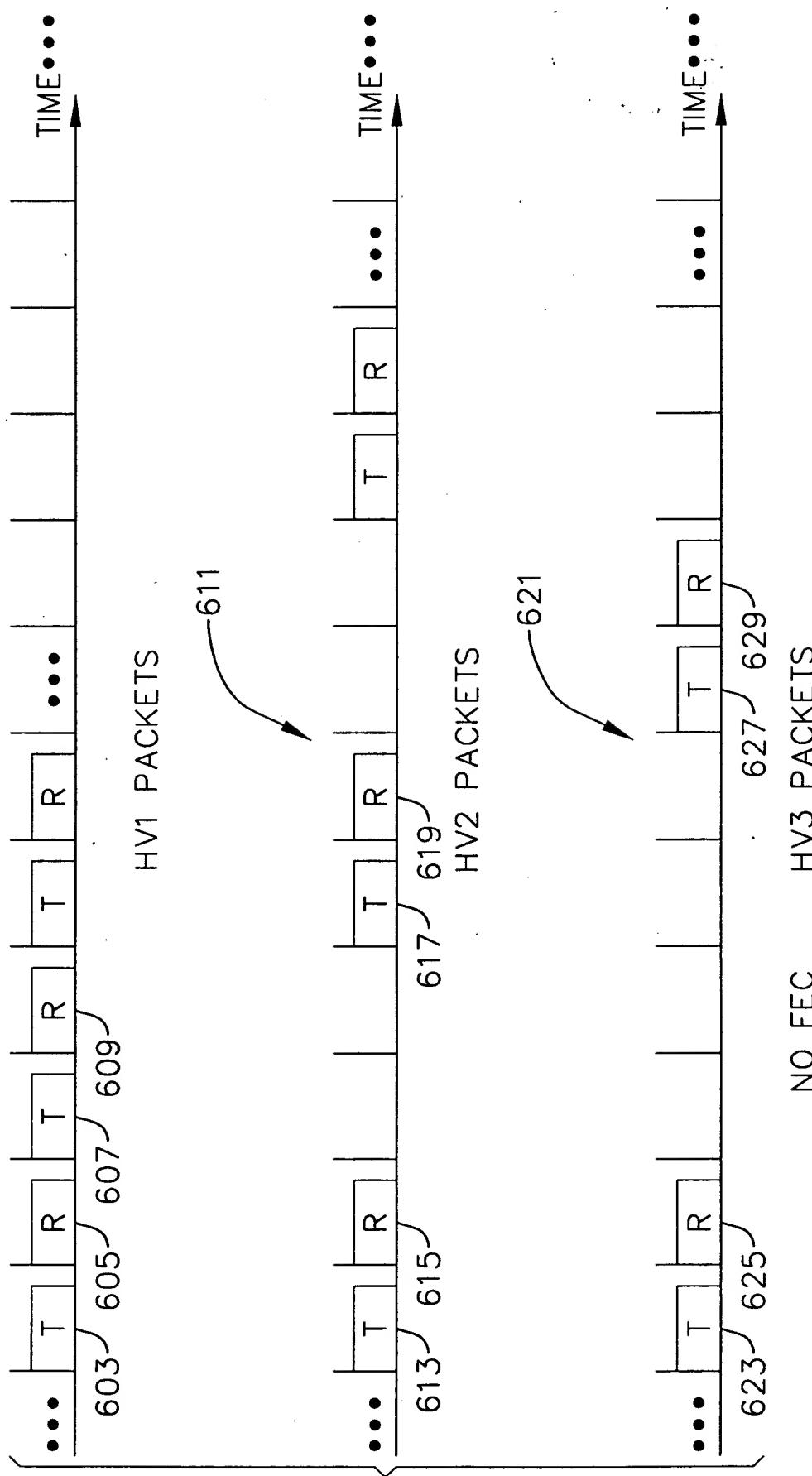
FIG. 6

FIG. 7

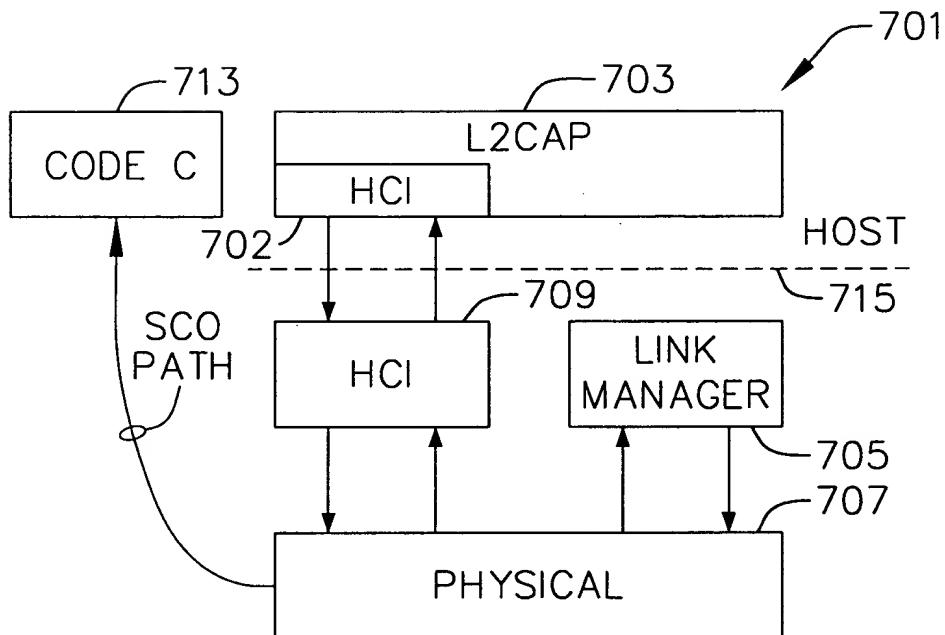


FIG. 8

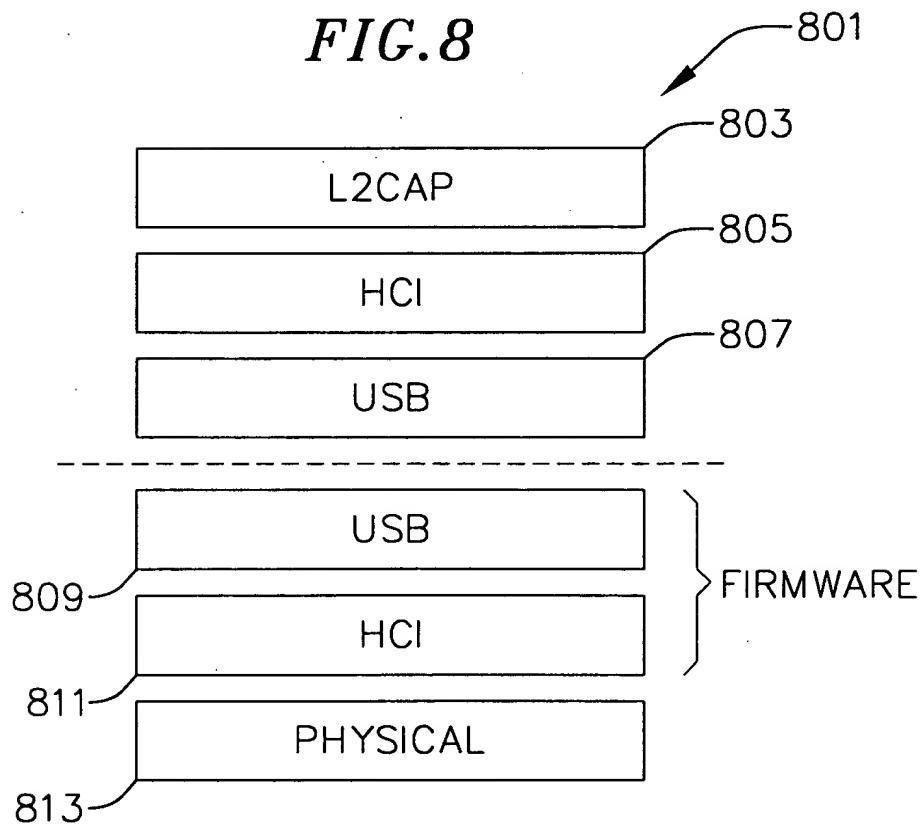


FIG. 9

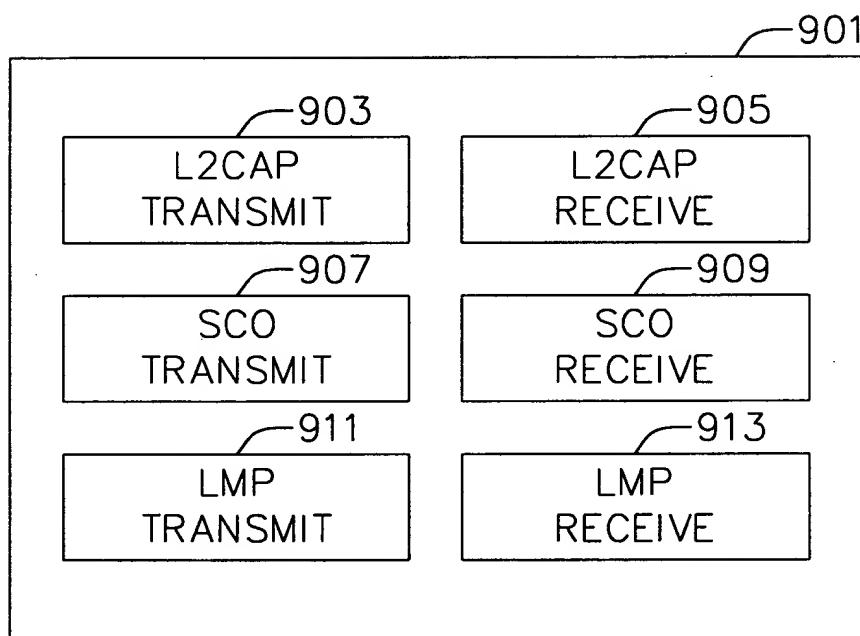


FIG. 10

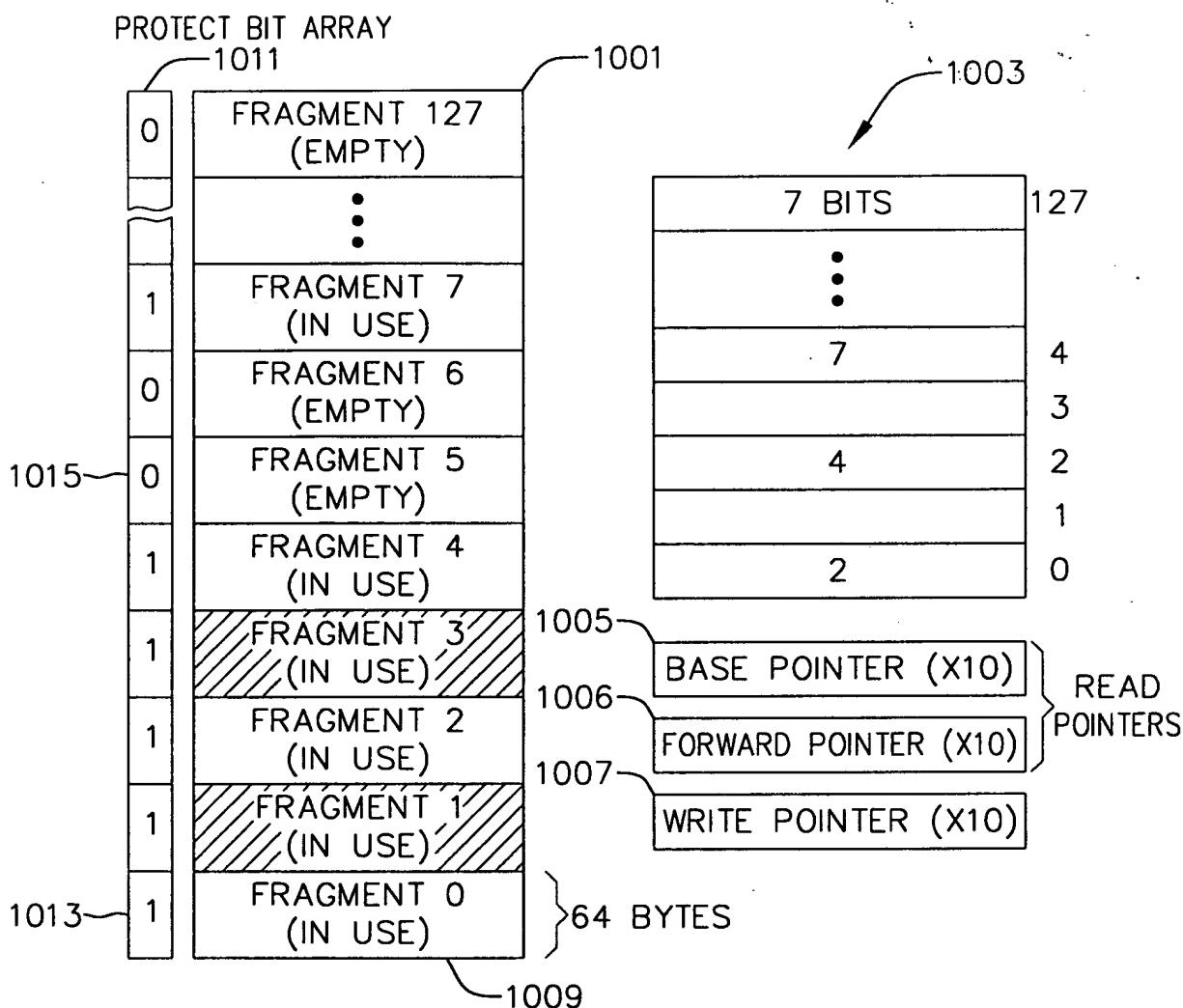


FIG. 11

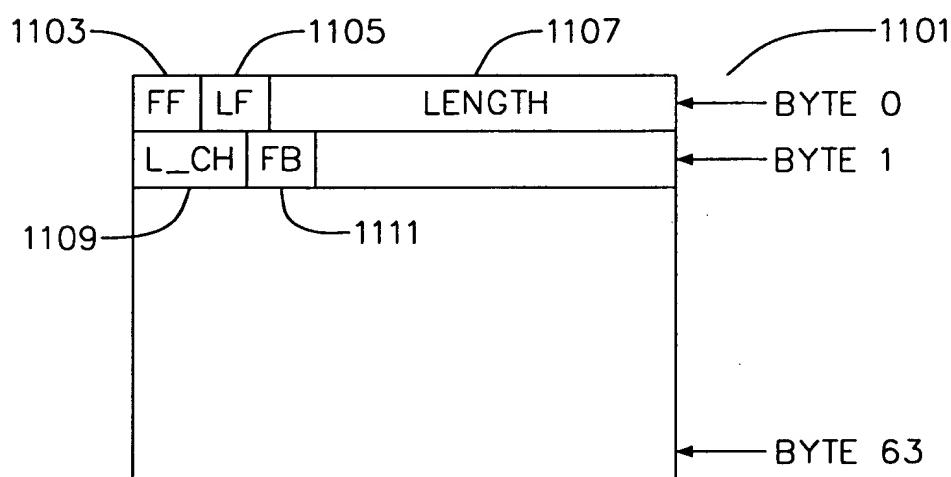


FIG. 12

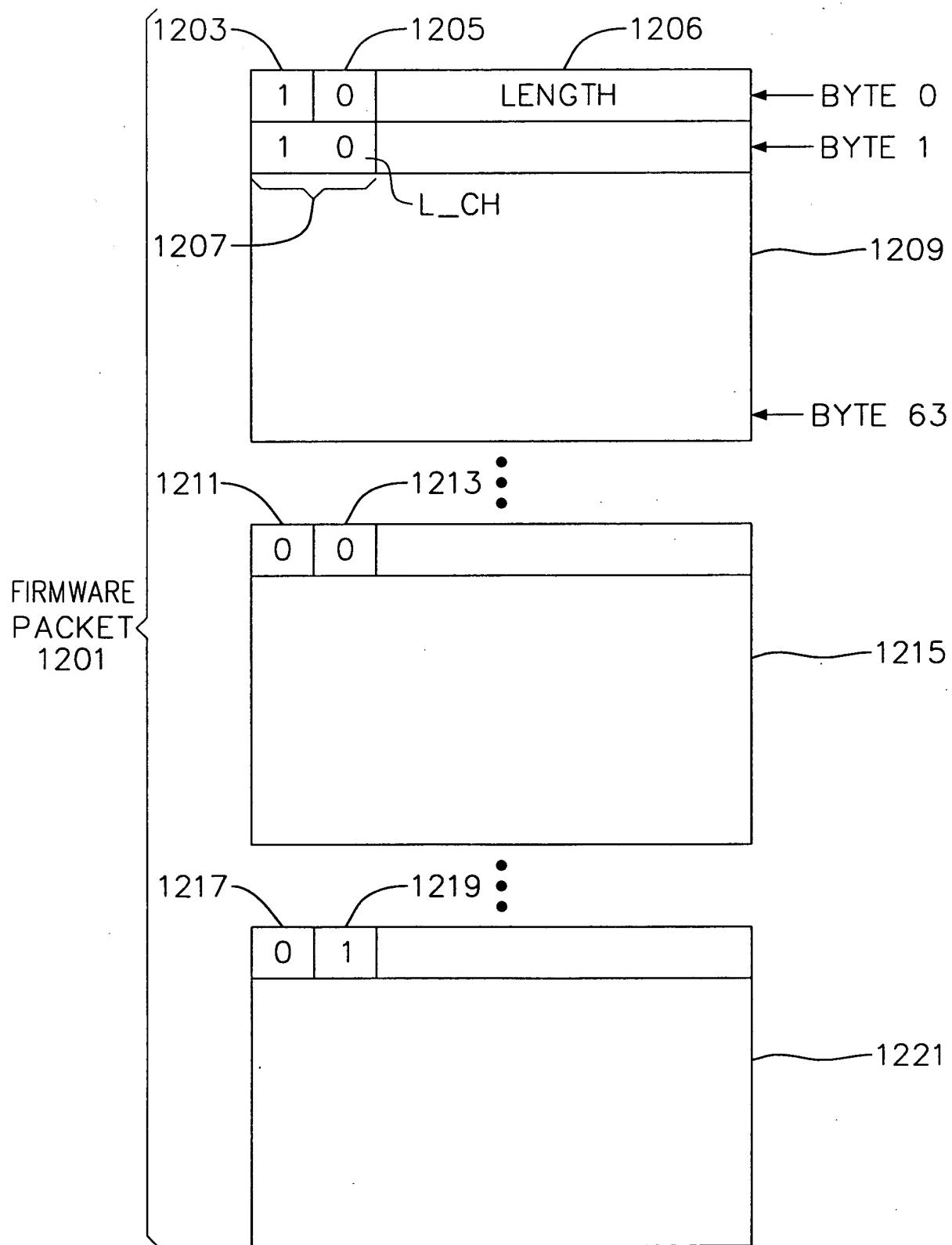


FIG. 13

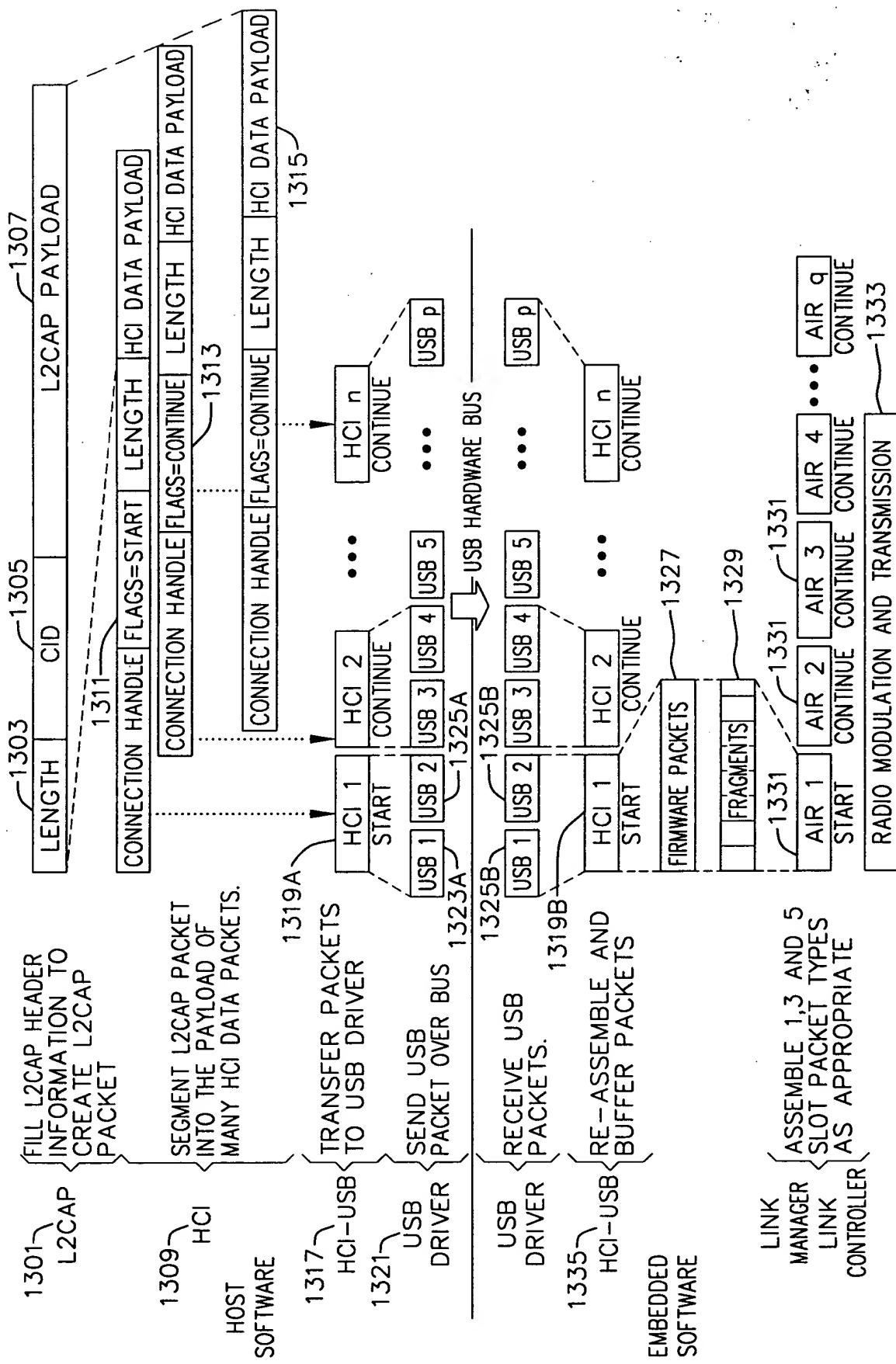


FIG. 14

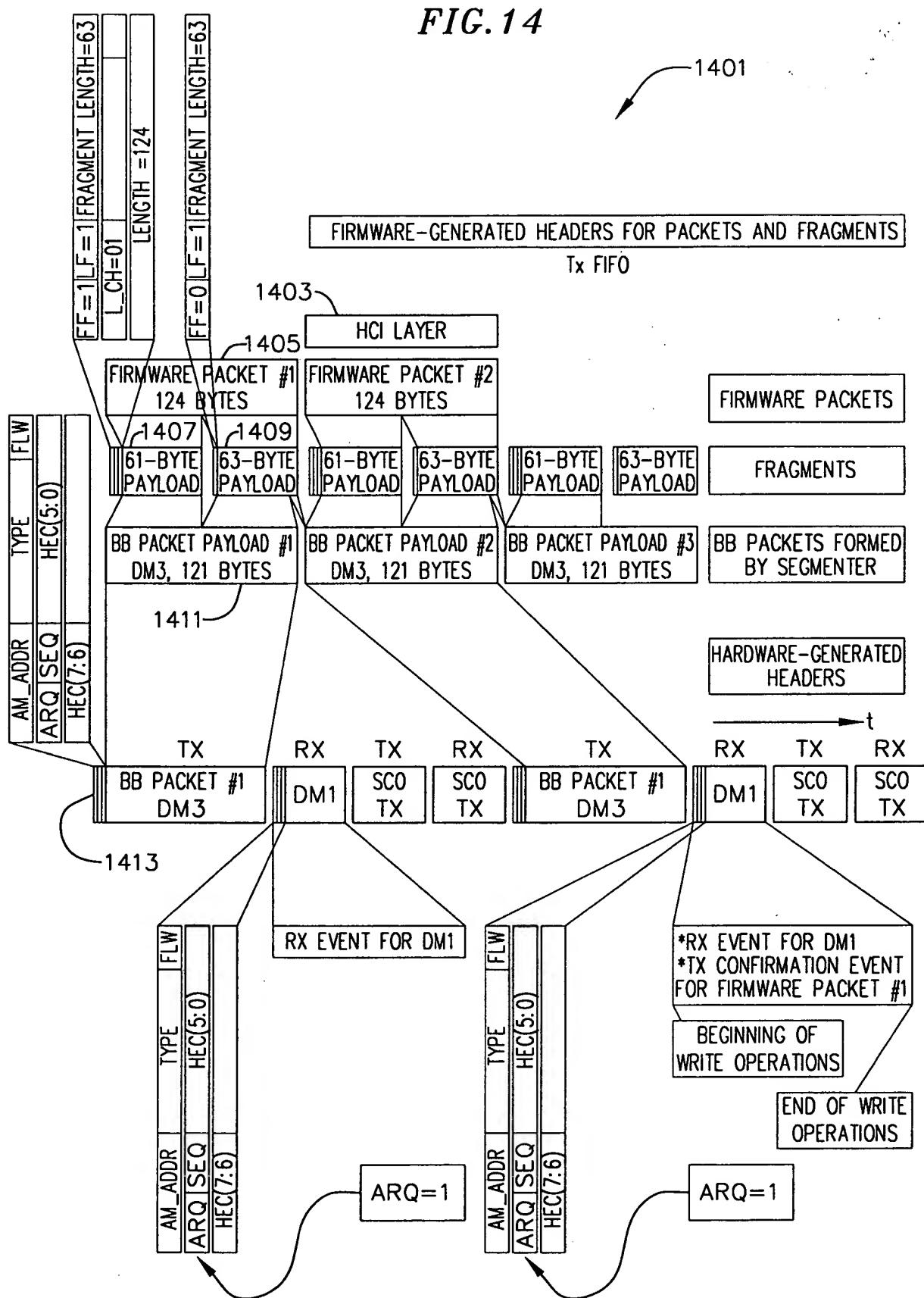


FIG. 15

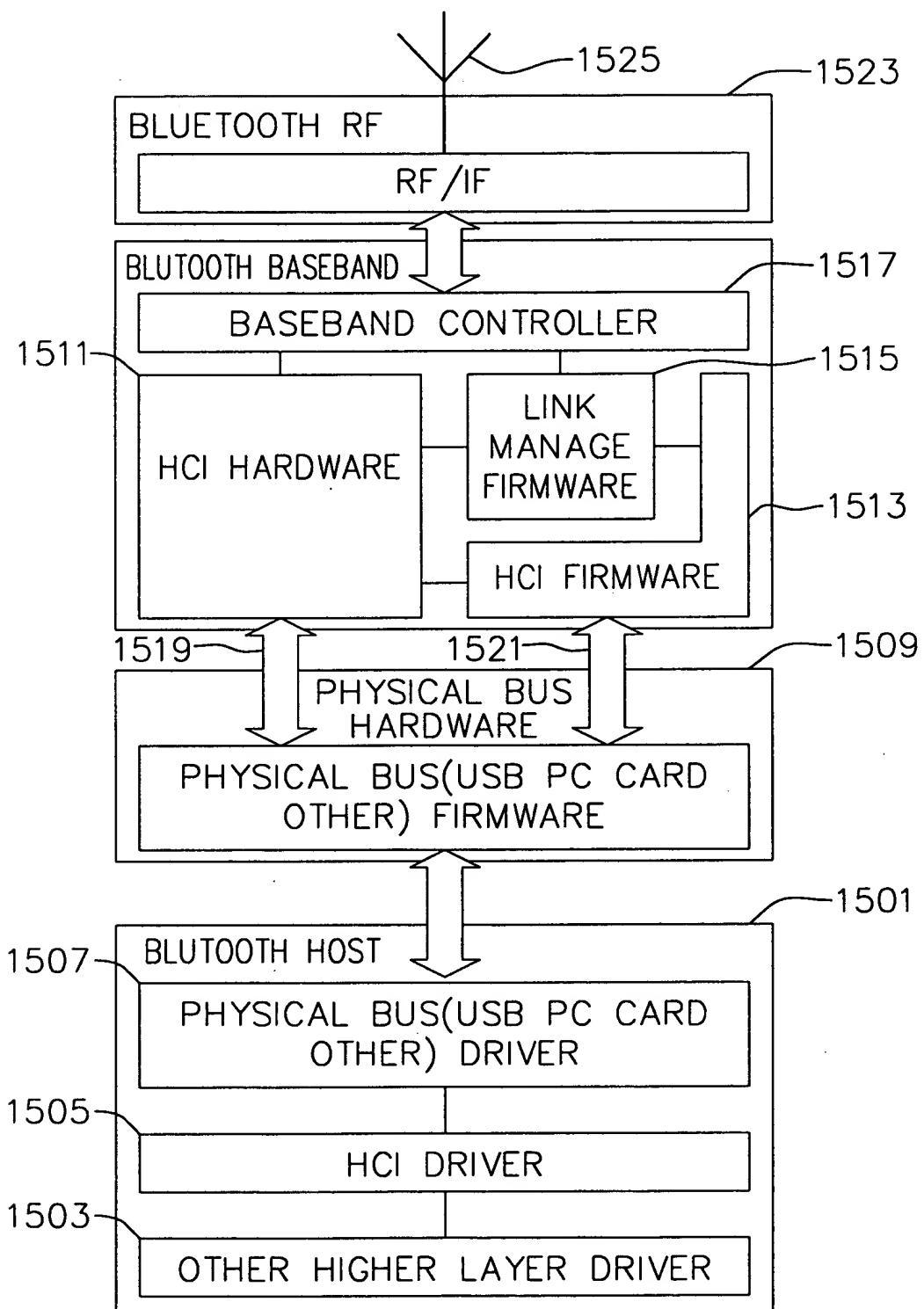


FIG. 16

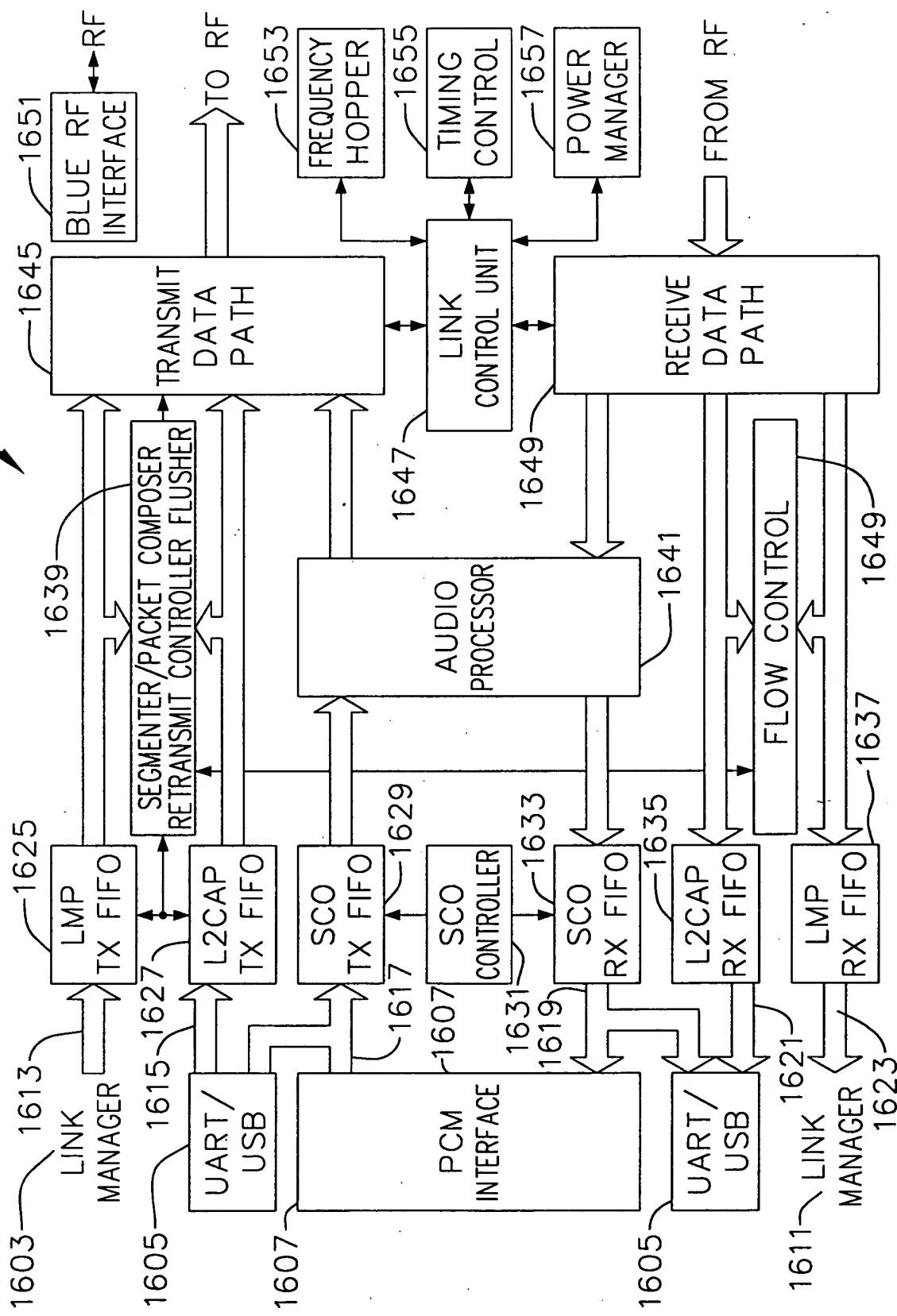


FIG. 17

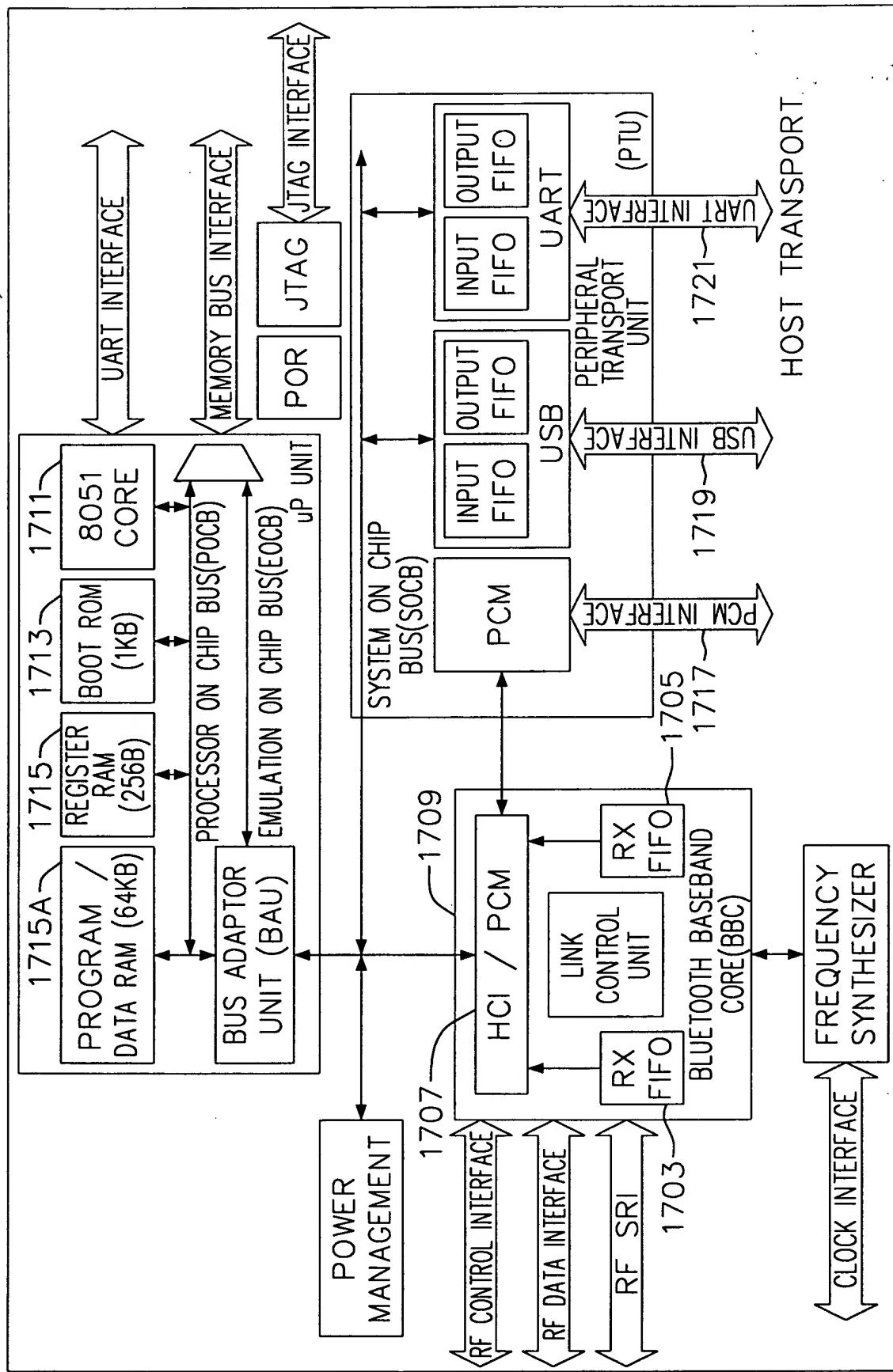


FIG. 18

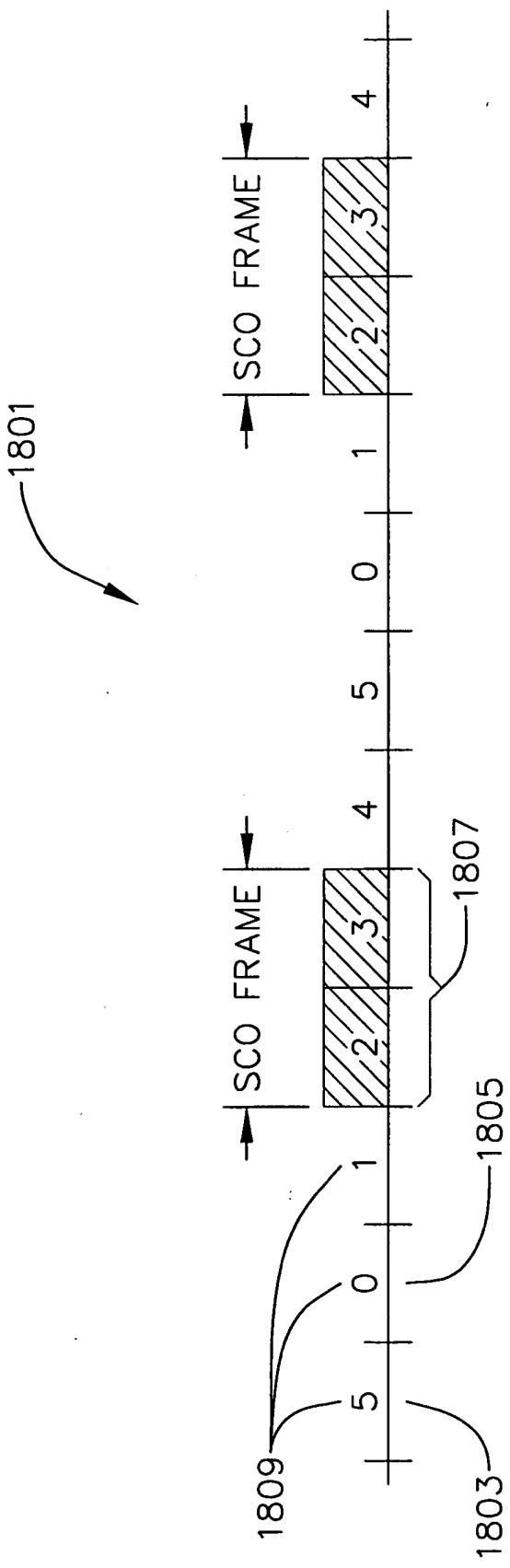


FIG. 19A

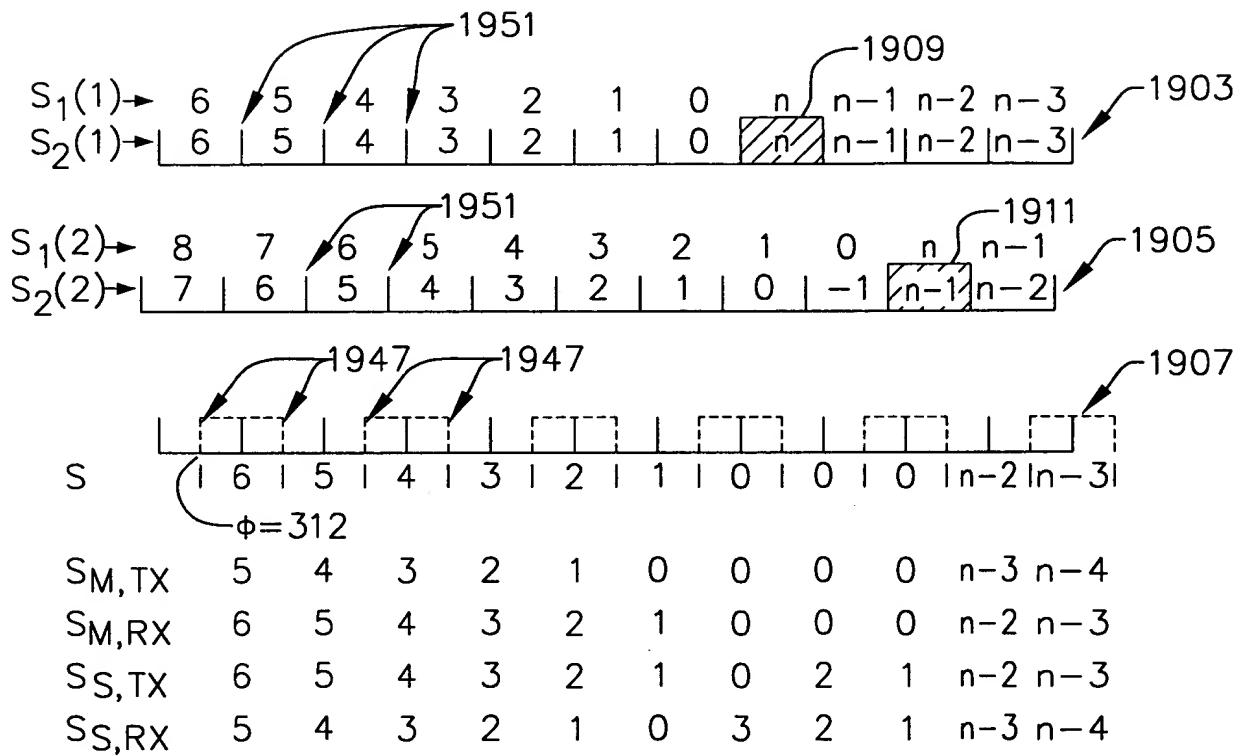


FIG. 19B

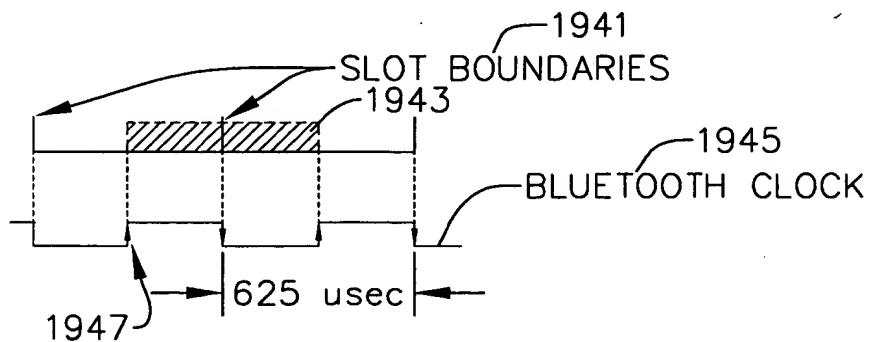


FIG. 20

TABLE 1. PACKET TYPE PRIORITY → 2001

RANGE	MIN LABEL	MAX BYTES IN BUFFER	1ST. CHOICE	2ND. CHOICE	3RD. CHOICE	4TH. CHOICE	5TH. CHOICE	6TH. CHOICE	NULL	NULL	NULL	NULL	NULL	NULL
a	0	0	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
b	1	17	DM1	DH1	DM3	DH3	DM5	DH5	DM5	DH5	DM5	DH5	DM1	DM1
c	18	27	DH1	DM3	DH3	DM5	DH5	DM5	DH5	DM5	DH5	DM5	DM1	DM1
d	28	121	DM3	DH3	DM5	DH5	DM5	DH1	DM1	DH1	DM1	DM1	DM1	DM1
e	122	183	DH3	DM5	DH5	DM5	DH3	DM3	DH1	DM1	DH1	DM1	DM1	DM1
f	184	224	DM5	DH5	DH3	DM3	DM3	DH1	DM1	DH1	DM1	DM1	DM1	DM1
g	225	339	DH5	DM5	DH3	DM3	DM3	DH1	DM1	DH1	DM1	DM1	DM1	DM1
h	339		DM5	DM5	DH3	DM3	DM3	DH1	DM1	DH1	DM1	DM1	DM1	DM1

FIG. 21

EXAMPLE OF A FRAGMENT CHOOSEN FOR 16 FRAGMENTS, N=4
 (FOR 127 FRAGMENTS N=7)

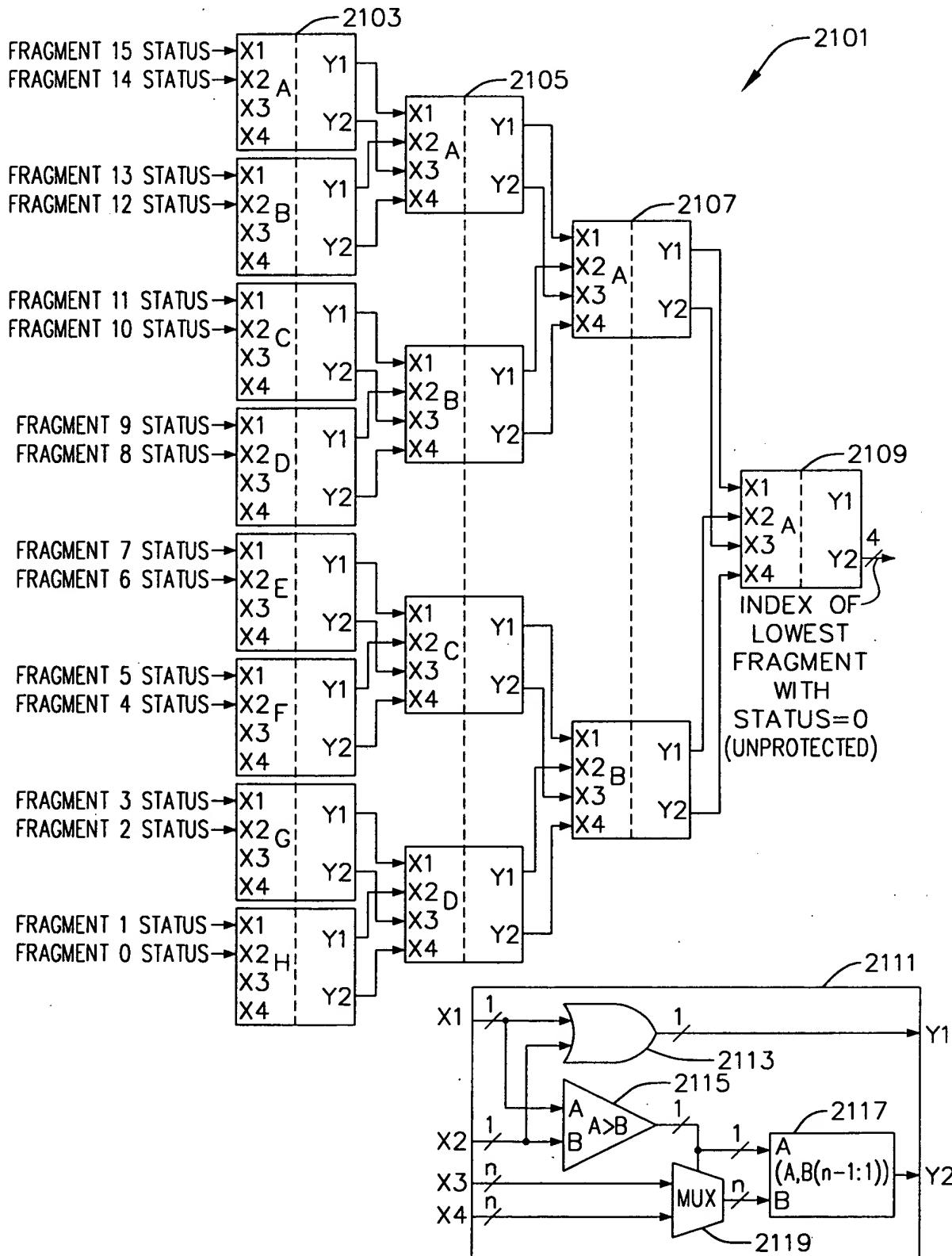


FIG. 22

CIRCUIT TO CALCULATE CLK MOD Y, WHERE CLK IS 27 BITS AND T IS 8 BITS

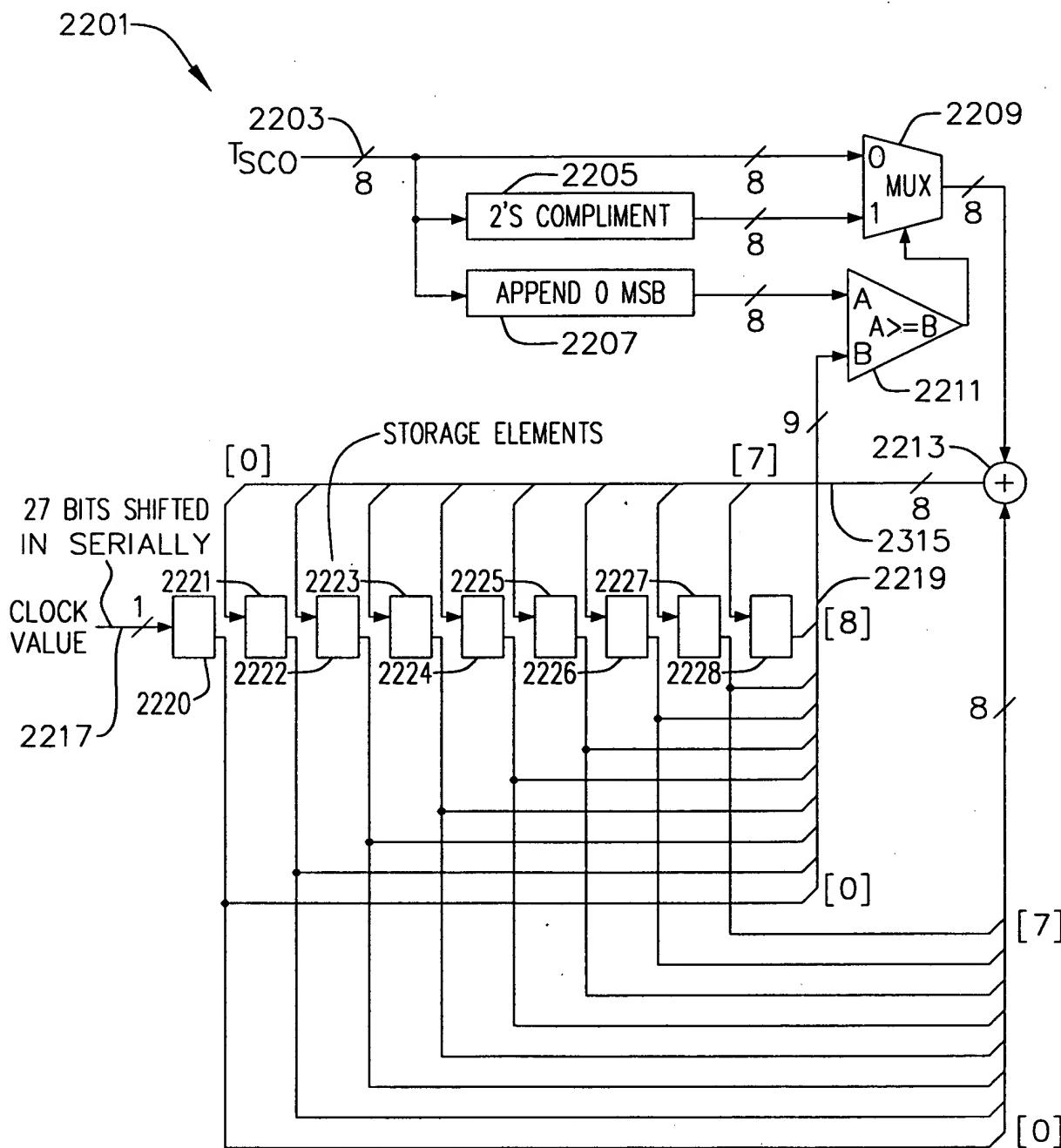


FIG. 23

FIG.23

EXAMPLE CALCULATION: 115307261 MOD 135

2301 → 115307261
 2305 → 135
 2309 → t=9 → 010101001
 2309 → t=10 → 001000101
 2309 → t=11 → 000000000
 2309 → t=12 → 000001000
 2309 → t=13 → 000010001
 2309 → t=14 → 000100011
 2309 → t=15 → 001000111
 2309 → t=16 → 010001110
 2309 → t=17 → 101111001
 2309 → t=18 → 000001110
 2309 → t=19 → 000111010
 2309 → t=20 → 001110101
 2309 → t=21 → 011101011
 2309 → t=22 → 101111001
 2309 → t=23 → 010000101
 2309 → t=24 → 000000000
 2309 → t=25 → 100001001
 2309 → t=26 → 101111001
 2309 → t=27 → 011111011
 2307 → 135
 2303 → 001110100
 2311 → 011111001
 ANSWER

FIG. 24

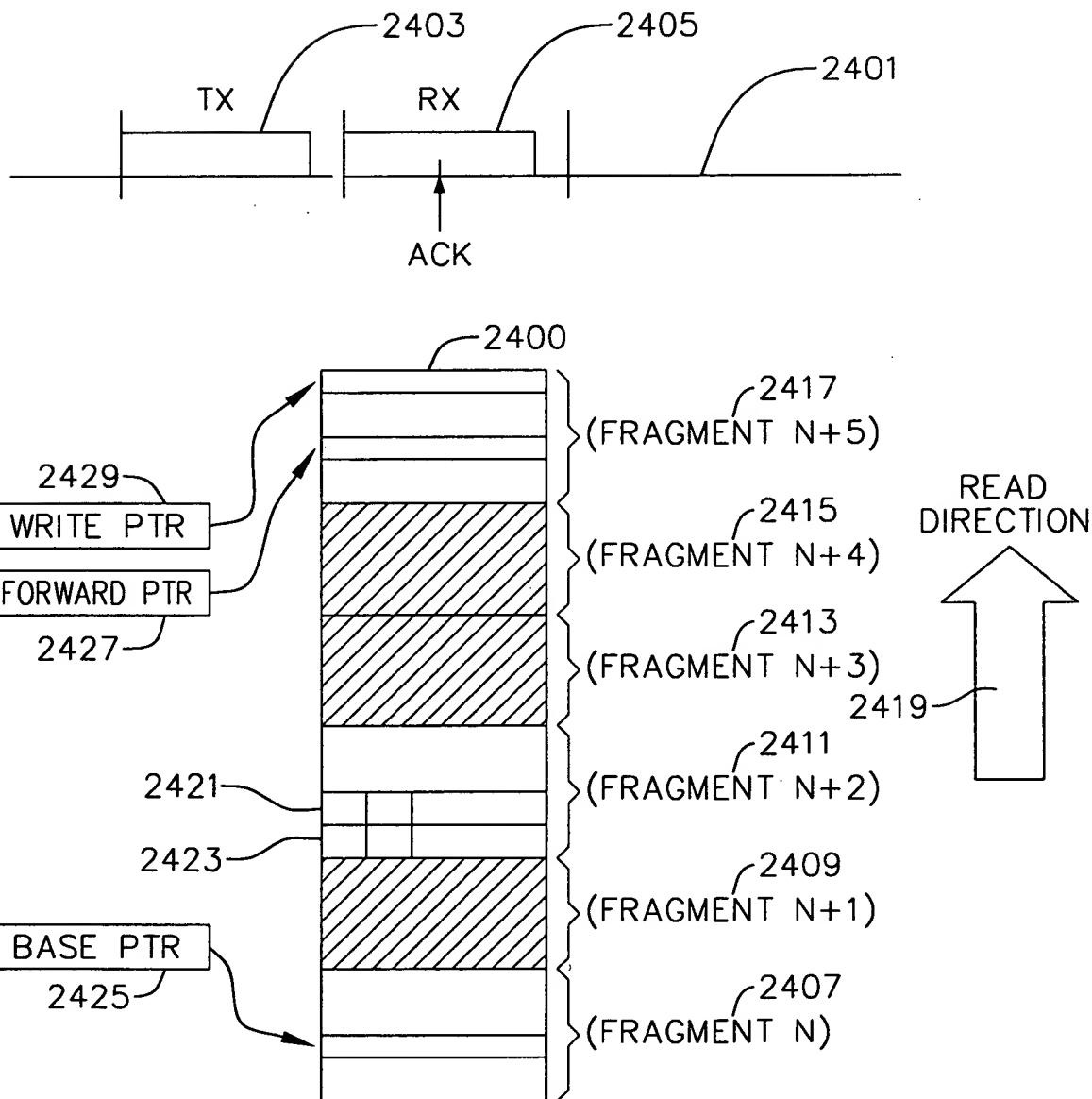


FIG. 25

THE FOLLOWING DIPICTS THE BYTE GAUGE STATE MACHINE IN FLOW DIAGRAM FORM. NUMBERS IN PARENTHESSES INDICATE THE STATE.

ACL(X): DATA IN ACL RAM
 ADDRESS LOCATION X
 ACC : BYTE COUNT ACCUMULATOR
 BPTR : ACL BASE READ
 ADDRESS POINTER
 DCNT : BASE FRAGMENT BYTE
 DOWN-COUNT
 FF : "FIRST FRAGMENT" BIT
 FLEN : FRAGMENT LENGTH IN BYTES
 LPTR : LINK POINTER FOR
 FRAGMENT T PTR(12:6)
 L_CH : L2CAP L_CH FIELD
 LF : "LAST FRAGMENT" BIT
 T PTR : TEMPORARY ACL RAM
 ADDRESS POINTER

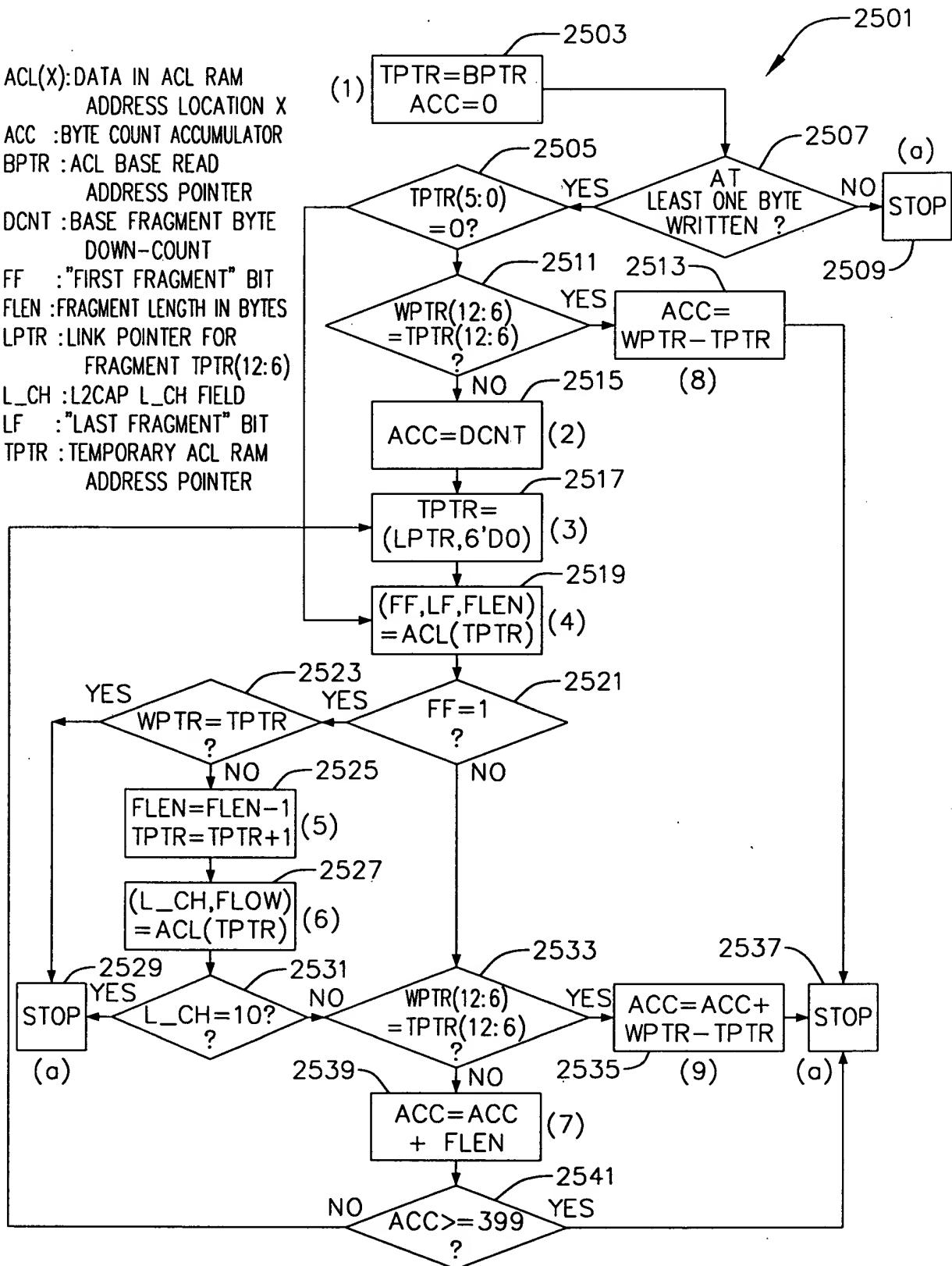
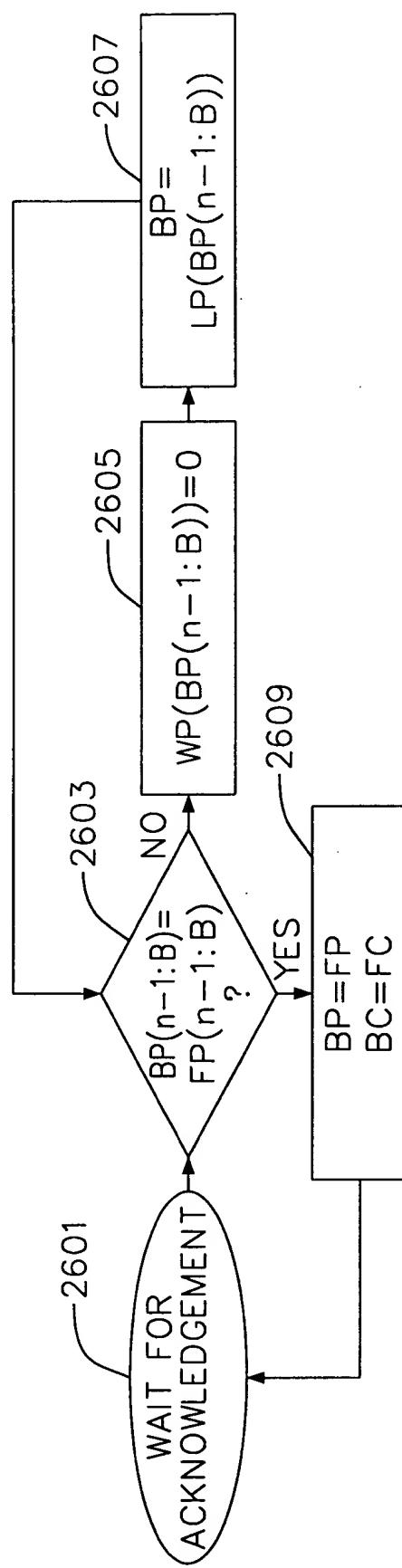


FIG. 26
L2CAP PACKET FLUSH STATE MACHINE



KEY:

- BBH1 : BASEBAND PACKET HEADER,
 1ST. BYTE
- BBH2: BASEBAND PACKET HEADER,
 2ND. BYTE
- BC : BASE DOWN-COUNT (COUNTS
 DOWN FROM FRAGMENT
 LENGTH)
- BP : BASE POINTER
- FC : FORWARD DOWN-COUNT
 (COUNTS DOWN FROM
 FRAGMENT LENGTH)
- FP : FORWARD POINTER
- LP : LINK POINTER ARRAY
- MEM : L2CAP MEMORY ARRAY
- N : NUMBER OF BITS IN
 ADDRESS TO MEMORY ARRAY
- PB : PAYLOAD BYTE DOWN-COUNT
 (COUNTS DOWN FROM
 PACKET LENGTH)
- PLH1 : PAYLOAD HEADER,
 1ST. BYTE
- PLH2: PAYLOAD HEADER,
 2ND. BYTE
- WP : WRITE PROTECTION ARRAY
 --ONE BIT PER FRAGMENT

NOTATION:

- : DECREMENT BY ONE
- ++ : INCREMENT BY ONE
- X(Y) : ELEMENT Y OF ARRAY X
- A(B:C) : BITS B THROUGH C OF
 N BIT BUS A
- (D,E) : CONCATENATION OF D AND E
- 6H : 6-BIT HEX VALUE

FIG. 27 L2CAP PACKET TRANSMIT STATE MACHINE

